

SYSTEM FOR DETECTING START CODES IN MPEG VIDEO STREAMS
AND METHOD OF OPERATING THE SAME

ABSTRACT OF THE DISCLOSURE

There is disclosed systems for detecting start codes in MPEG
5 video streams in a digital video recorder (DVR), and methods of
operating the same. An exemplary MPEG decoder is capable of
decoding received bitstreams and generating PES packets. The MPEG
decoder includes a controller that detects start codes in the
received bitstreams, each of such codes having a three-byte start
10 code prefix and a one-byte start code value. The controller is
operable to (i) fetch a thirty-two bit word of a received
bitstream, (ii) determine whether a start code prefix and a start
code value are properly aligned within the thirty-two bit word, and
(iii) if not properly aligned within the thirty-two bit word,
15 determine whether the least significant byte of the thirty-two bit
word may be part of the start code prefix.